INDEX

SHEET NO.	PLAN REFERENCE NO.	TITLE
		VOLUME 1
1	IN1	INDEX
2	VM1	VICINITY MAP
3	SQ1	SUMMARY OF QUANTITIES
		VOLUME 2
4	IN2	INDEX
5	CT1	CERTIFICATION SHEET
6	AL1	ALIGNMENT AND RIGHT OF WAY PLAN
7	SP1	SITE PREPARATION AND TESC PLAN
8	ECP1	ENVIRONMENTAL COMPLIANCE PLAN
9	CR1	STREAM PLAN
10 - 12	CD1 - CD3	LARGE WOODY MATERIAL DETAILS
13	SPP1	SOIL PREPARATION PLAN
14	LS1	RESTORATION PLAN
15 - 16	LS2 - LS3	RESTORATION DETAILS
17	TC1	TRAFFIC CONTROL PLAN

PLAN REFERENCE NO.

SHEET OF SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_VM.dgn						
TIME	11:12:04 AM				REGION NO. 10	STATE WASH	FED.AID PROJ.NO. STBG-0092(903)
DATE	1/11/2024						
PLOTTED BY	DannemA				JOB NUMBER 23A016		
DESIGNED BY	R. CARTER						
ENTERED BY	R. CARTER						
CHECKED BY	A. DANNEMILLER				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

INDEX

Plot 4

PLAN REF NO IN2

SHEET 4 OF 17 SHEETS

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Cullen Anderson Jan 23, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Julie Heilman Jan 23, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	Lindsey Jungbluth Jan 23, 2024 AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

FILE NAME	T:\412348\XL6143-SR92-PilchuckRiverCED\CAD\ContractPlans\XL6143_PS_VM.dgn
TIME	11:12:05 AM
DATE	1/11/2024
PLOTTED BY	DannemA
DESIGNED BY	R. CARTER
ENTERED BY	R. CARTER
CHECKED BY	A. DANNEMILLER
PROJ. ENGR.	C. ANDERSON
REGIONAL ADM.	B. NIELSEN

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER 23A016		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

CERTIFICATION SHEET

Plot 2

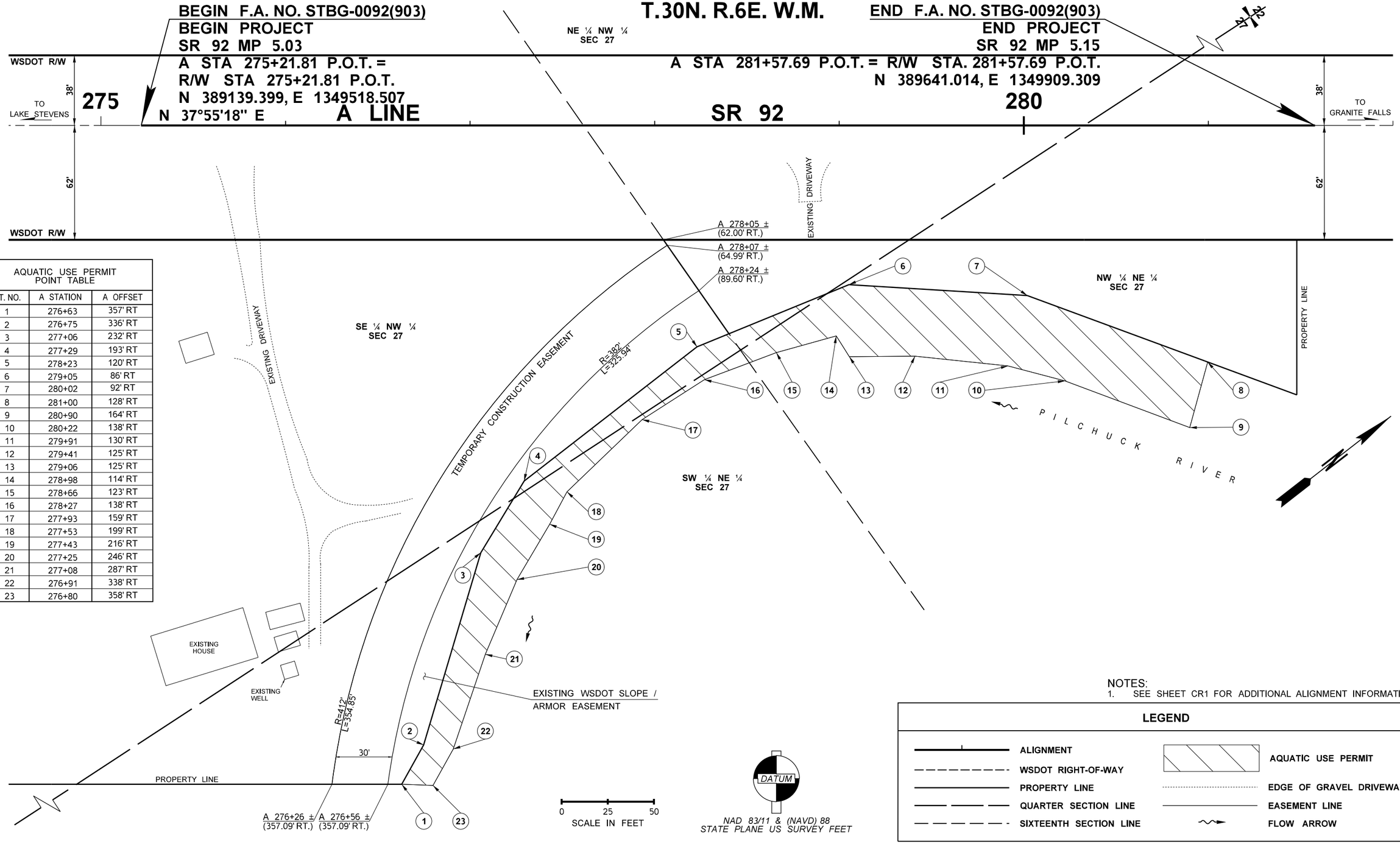
PLAN REF NO CT1

SHEET 5 OF 17 SHEETS

BEGIN F.A. NO. STBG-0092(903)
BEGIN PROJECT
SR 92 MP 5.03
A STA 275+21.81 P.O.T. =
R/W STA 275+21.81 P.O.T.
N 389139.399, E 1349518.507
N 37°55'18" E

T.30N. R.6E. W.M.

END F.A. NO. STBG-0092(903)
END PROJECT
SR 92 MP 5.15
A STA 281+57.69 P.O.T. = R/W STA. 281+57.69 P.O.T.
N 389641.014, E 1349909.309



AQUATIC USE PERMIT POINT TABLE		
PT. NO.	A STATION	A OFFSET
1	276+63	357' RT
2	276+75	336' RT
3	277+06	232' RT
4	277+29	193' RT
5	278+23	120' RT
6	279+05	86' RT
7	280+02	92' RT
8	281+00	128' RT
9	280+90	164' RT
10	280+22	138' RT
11	279+91	130' RT
12	279+41	125' RT
13	279+06	125' RT
14	278+98	114' RT
15	278+66	123' RT
16	278+27	138' RT
17	277+93	159' RT
18	277+53	199' RT
19	277+43	216' RT
20	277+25	246' RT
21	277+08	287' RT
22	276+91	338' RT
23	276+80	358' RT

0 25 50
SCALE IN FEET

DATUM
NAD 83/11 & (NAVD) 88
STATE PLANE US SURVEY FEET

NOTES:
1. SEE SHEET CR1 FOR ADDITIONAL ALIGNMENT INFORMATION.

LEGEND

- ALIGNMENT
- WSDOT RIGHT-OF-WAY
- PROPERTY LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- AQUATIC USE PERMIT
- EDGE OF GRAVEL DRIVEWAY
- EASEMENT LINE
- FLOW ARROW

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_AL.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:12:19 AM				10	WASH	
DATE	1/11/2024				JOB NUMBER		
PLOTTED BY	DannemA				23A016		
DESIGNED BY	R. CARTER				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. CARTER						
CHECKED BY	A. DANNEMILLER						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

CULLER ANDERSEN — STATE OF WASHINGTON — 20127 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

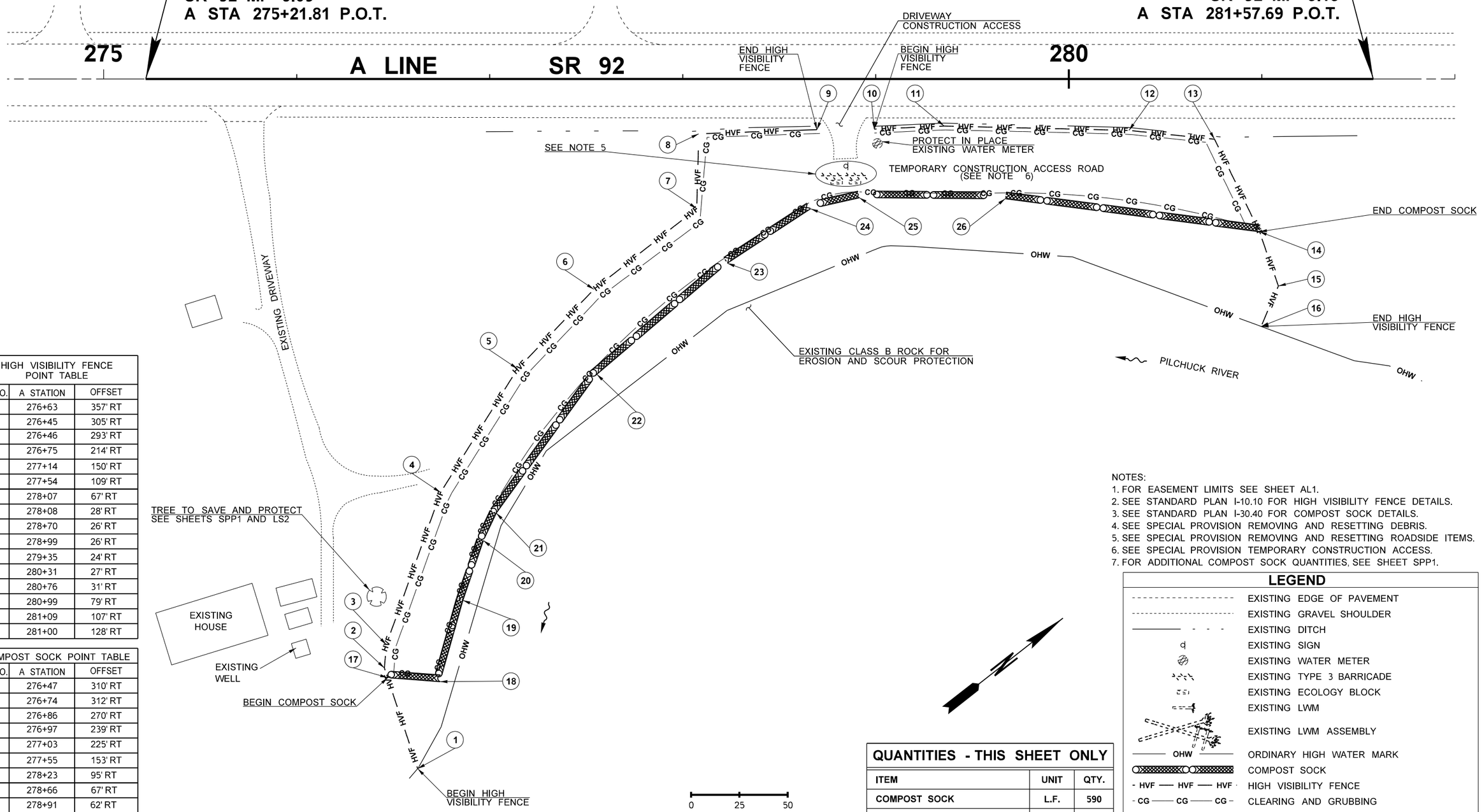
SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

ALIGNMENT AND RIGHT OF WAY PLAN

Plot 1
PLAN REF NO
AL1
SHEET **6** OF **17** SHEETS

BEGIN F.A. NO. STBG-0092(903)
BEGIN PROJECT
SR 92 MP 5.03
A STA 275+21.81 P.O.T.

END F.A. NO. STBG-0092(903)
END PROJECT
SR 92 MP 5.15
A STA 281+57.69 P.O.T.



HIGH VISIBILITY FENCE POINT TABLE		
PT. NO.	A STATION	OFFSET
1	276+63	357' RT
2	276+45	305' RT
3	276+46	293' RT
4	276+75	214' RT
5	277+14	150' RT
6	277+54	109' RT
7	278+07	67' RT
8	278+08	28' RT
9	278+70	26' RT
10	278+99	26' RT
11	279+35	24' RT
12	280+31	27' RT
13	280+76	31' RT
14	280+99	79' RT
15	281+09	107' RT
16	281+00	128' RT

COMPOST SOCK POINT TABLE		
PT. NO.	A STATION	OFFSET
17	276+47	310' RT
18	276+74	312' RT
19	276+86	270' RT
20	276+97	239' RT
21	277+03	225' RT
22	277+55	153' RT
23	278+23	95' RT
24	278+66	67' RT
25	278+91	62' RT
26	279+67	62' RT

0 25 50
SCALE IN FEET

NOTES:
1. FOR EASEMENT LIMITS SEE SHEET AL1.
2. SEE STANDARD PLAN I-10.10 FOR HIGH VISIBILITY FENCE DETAILS.
3. SEE STANDARD PLAN I-30.40 FOR COMPOST SOCK DETAILS.
4. SEE SPECIAL PROVISION REMOVING AND RESETTING DEBRIS.
5. SEE SPECIAL PROVISION REMOVING AND RESETTING ROADSIDE ITEMS.
6. SEE SPECIAL PROVISION TEMPORARY CONSTRUCTION ACCESS.
7. FOR ADDITIONAL COMPOST SOCK QUANTITIES, SEE SHEET SPP1.

QUANTITIES - THIS SHEET ONLY

ITEM	UNIT	QTY.
COMPOST SOCK	L.F.	590
HIGH VISIBILITY FENCE	L.F.	740

LEGEND

	EXISTING EDGE OF PAVEMENT
	EXISTING GRAVEL SHOULDER
	EXISTING DITCH
	EXISTING SIGN
	EXISTING WATER METER
	EXISTING TYPE 3 BARRICADE
	EXISTING ECOLOGY BLOCK
	EXISTING LWM
	EXISTING LWM ASSEMBLY
OHW	ORDINARY HIGH WATER MARK
	COMPOST SOCK
HVF	HIGH VISIBILITY FENCE
CG	CLEARING AND GRUBBING
	TEMPORARY CONSTRUCTION ACCESS ROAD

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_SP.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:12:27 AM				10	WASH	
DATE	1/11/2024				JOB NUMBER		
PLOTTED BY	DannemA				23A016		
DESIGNED BY	R. CARTER				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. CARTER						
CHECKED BY	A. DANNEMILLER						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

GUILLERMO ANDERSON — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

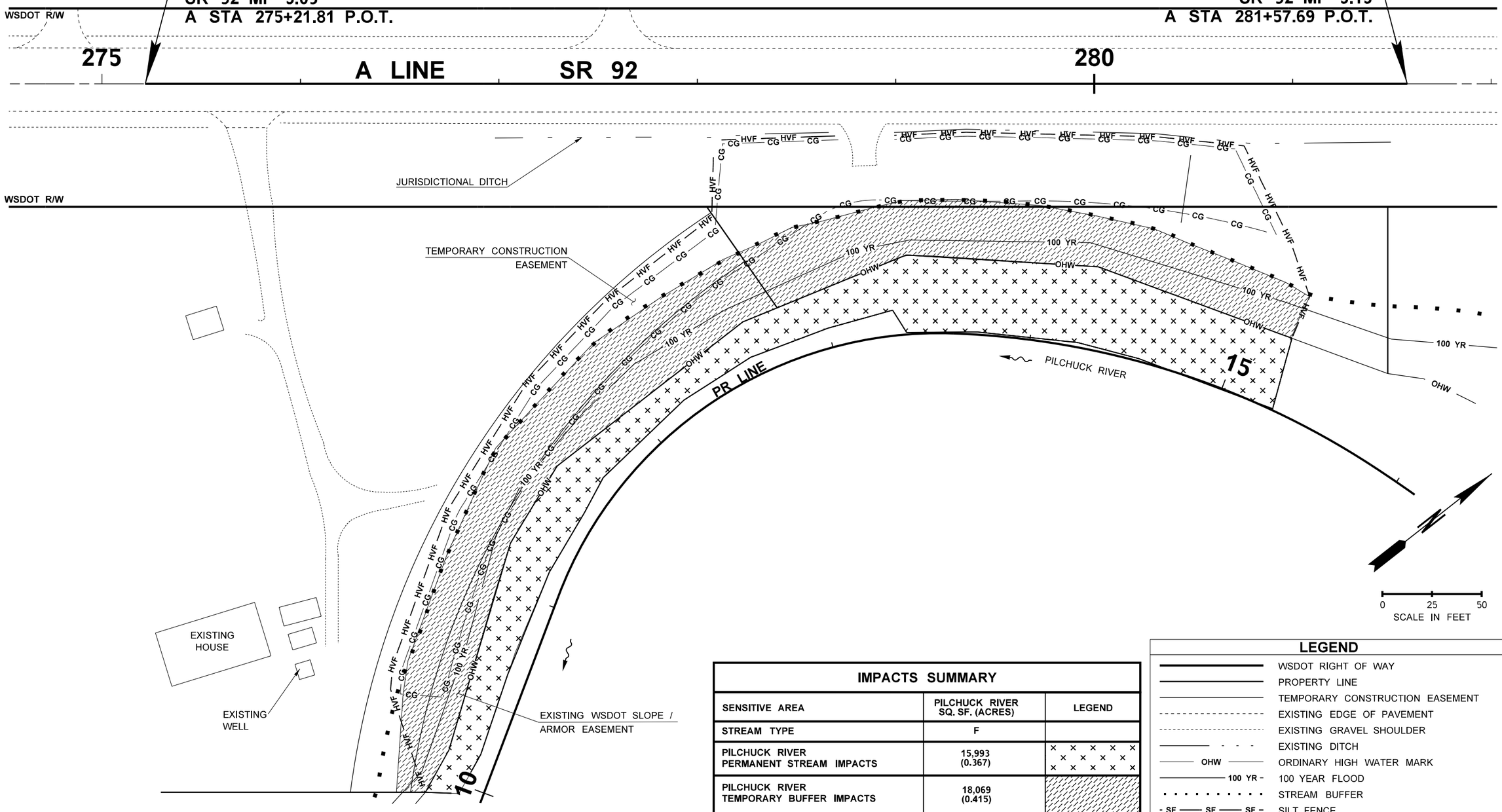
SITE PREPARATION AND TESC PLAN

PLAN REF NO **SP1**

SHEET **7** OF **17** SHEETS

BEGIN F.A. NO. STBG-0092(903)
BEGIN PROJECT
SR 92 MP 5.03
A STA 275+21.81 P.O.T.

END F.A. NO. STBG-0092(903)
END PROJECT
SR 92 MP 5.15
A STA 281+57.69 P.O.T.



IMPACTS SUMMARY

SENSITIVE AREA	PILCHUCK RIVER SQ. SF. (ACRES)	LEGEND
STREAM TYPE	F	
PILCHUCK RIVER PERMANENT STREAM IMPACTS	15,993 (0.367)	
PILCHUCK RIVER TEMPORARY BUFFER IMPACTS	18,069 (0.415)	
TEMPORARY BUFFER IMPACT LENGTH	600 LINEAR FEET	
PERMANENT STREAM IMPACT LENGTH	600 LINEAR FEET	

LEGEND

- WSDOT RIGHT OF WAY
- PROPERTY LINE
- TEMPORARY CONSTRUCTION EASEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING GRAVEL SHOULDER
- EXISTING DITCH
- OHW — ORDINARY HIGH WATER MARK
- 100 YR — 100 YEAR FLOOD
- STREAM BUFFER
- SF — SILT FENCE
- HVF — HIGH VISIBILITY FENCE
- CG — CLEARING AND GRUBBING

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_ECP.dgn				REGION NO. 10	STATE WASH
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DATE	1/11/2024				JOB NUMBER 23A016	
PLOTTED BY	DannemA				CONTRACT NO.	LOCATION NO.
DESIGNED BY	R. CARTER					
ENTERED BY	R. CARTER					
CHECKED BY	A. DANNEMILLER					
PROJ. ENGR.	C. ANDERSON					
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY		

OLLIE F. ANDERSON — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1
DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

ENVIRONMENTAL COMPLIANCE PLAN

Plot 1
PLAN REF NO ECP1
SHEET 8 OF 17 SHEETS

PILCHUCK RIVER ALIGNMENT CURVE DATA				
P.I. STATION	DELTA	TANGENT	RADIUS	LENGTH
PR 12+53.19	71°20'32.69" RT	147.20'	205.06'	255.34'
PR 14+75.65	30°53'30.85" RT	114.32'	413.75'	223.08'

END F.A. NO. STBG-0092(903)
END PROJECT
SR 92 MP 5.15
A STA 281+57.69 P.O.T.

275 — A LINE — SR 92 — 280

BEGIN F.A. NO. STBG-0092(903)
BEGIN PROJECT
SR 92 MP 5.03
A STA 275+21.81 P.O.T.

SEE SHEET CD1 — B
SEE SHEET CD1 — C
260
PR 12+53.19 P.I.
250
PR 14+75.65 P.I.
END CONSTRUCTION
PR 14+90 P.O.C.
SEE SHEET CD1 — A
13+00 B
14+00 C
15+00
PR 13+61.32 P.C.C.
PILCHUCK RIVER
LWM TYPE A
SEE SHEETS CD1 & CD3
PR 15+84.41 P.C.C. P.O.E. =
STA A 281+39.34 (192.02' RT)
N 389508.527, E 1350049.501
16+00
12+00 A
PR LINE
240
17+00
PR 11+05.99 P.C.
11+00
N31°23'29.35"W
240
LOG JACK
SEE SHEET CD1 & CD2
10+00
260
PR 9+58.98 P.O.T. P.O.B. =
STA A 276+78.09 P.O.T. (395.86' RT)
N 389045.869, E 1349910.668
BEGIN CONSTRUCTION
PR 9+90 P.O.T.

LARGE WOODY MATERIAL PLACEMENT SCHEDULE		
TYPE OF LWM	BEGIN STATION	END STATION
DOUBLE LOG JACK	PR 9+90	PR 12+42
LOG JACK	PR 12+42	PR 13+40
LWM TYPE A	PR 13+40	PR 14+90

NOTES:
1. LOCATIONS AND ORIENTATION OF LARGE WOODY MATERIAL (LWM) STRUCTURES AS SHOWN ON THIS SHEET ARE APPROXIMATE AND WILL BE STAKED BY THE ENGINEER.
2. SEE SHEETS CD1 - CD3 FOR LOG JACK AND LWM DETAILS.
3. SEE SHEET AL1 FOR ADDITIONAL ALIGNMENT INFORMATION.

LEGEND
- NEW STREAM CENTERLINE 15+00 / 280
- CONSTRUCTION CENTERLINE
- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING EDGE OF TRAVELED WAY
- LOG JACK
- LWM TYPE A

DATUM
NAD 83/11 & (NAVD) 88
STATE PLANE US SURVEY FEET

0 25 50
SCALE IN FEET

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_CR.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:09:18 AM				10	WASH	
DATE	1/22/2024				JOB NUMBER		
PLOTTED BY	carterra				23A016		
DESIGNED BY	R. CARTER				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. CARTER						
CHECKED BY	A. DANNEMILLER						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

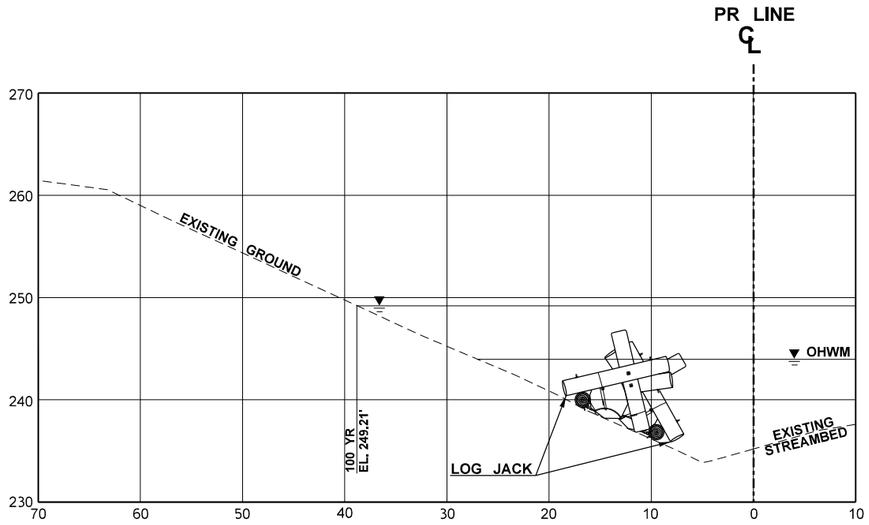
SEE SHEET CT1 DATE — P.E. STAMP BOX
SEE SHEET CT1 DATE — P.E. STAMP BOX

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

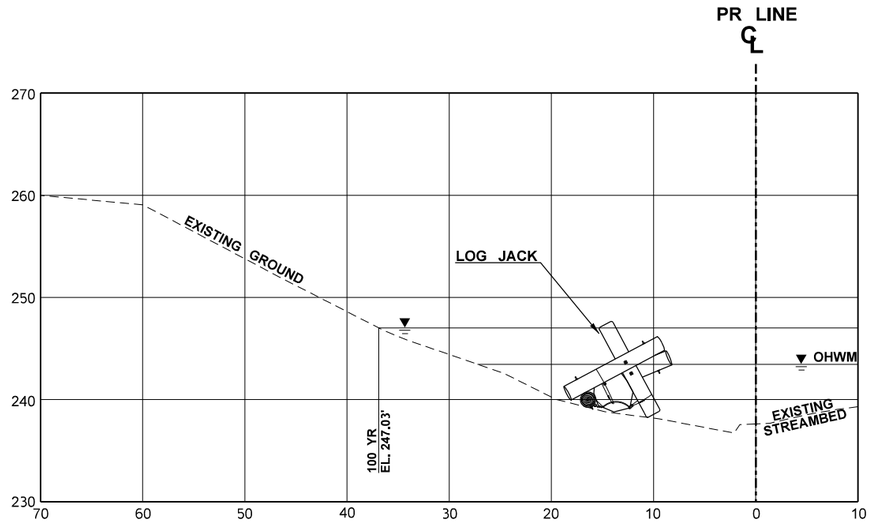
STREAM PLAN

Plot 1
PLAN REF NO CR1
SHEET 9 OF 17 SHEETS



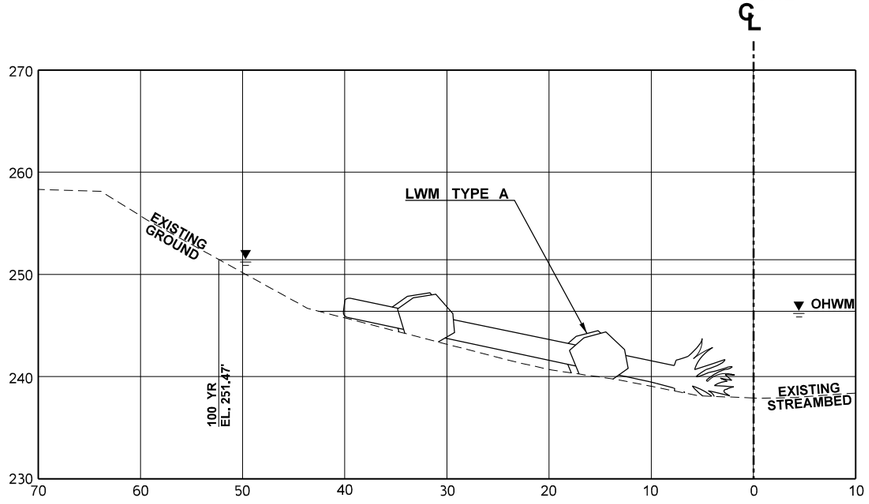
DOUBLE LOG JACK SECTION A-A

PR 9+90 TO PR 12+42



LOG JACK SECTION B-B

PR 12+42 TO PR 13+40



LWM STRUCTURE SECTION C-C

PR 13+40 TO PR 14+90

LOG JACK (SEE SHEET CD2) SCHEDULE PER UNIT				
MEMBER	QUANTITY	DIAMETER (IN.)	LENGTH (FT.)	DESCRIPTION*
STRUCTURE LOG	3	16 - 20	11.5 - 12.5	DOUGLAS FIR OR RED CEDAR
STRUCTURE LOG (POST LOG)	1	16 - 20	9.5 - 10.5	DOUGLAS FIR OR RED CEDAR
CEDAR TREE	3	-	6 - 10	-
BOULDER ANCHOR	1	N/A	N/A	WEIGHT 6 TON (MIN), 7 TON (MAX) EACH
ALL-THREAD	5	1.25	VARIES	ASTM A193 GRADE 55, PLAIN FINISH
WIRE ROPE	4	0.50	VARIES	ASTM A492, STAINLESS STEEL
SHACKLE	1	0.75	-	BOLT TYPE SHACKLE, MIN. WLL 9,500 LBS
MANILA ROPE	6	0.50	VARIES	FEDERAL SPECIFICATION T-R-605B

*SEE SPECIAL PROVISIONS FOR ADDITIONAL MATERIAL SPECIFICATIONS AND REQUIREMENTS.

GENERAL PLACEMENT: SEE SHEETS CR1 & CD1 FOR GENERAL LOCATION AND ELEVATION. PLACE LOGS AS DIRECTED BY THE ENGINEER. LAYOUT MAY VARY FROM THAT SHOWN IN THE PLANS.

DATUM

(NAVD) 88

NOTES:

1. LOCATIONS AND ORIENTATION OF LARGE WOODY MATERIAL (LWM) STRUCTURES AS SHOWN ON THIS SHEET ARE APPROXIMATE AND WILL BE STAKED BY THE ENGINEER.
2. SEE SHEET CR1 FOR LWM PLAN.

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_CR.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	
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DESIGNED BY	R. CARTER				CONTRACT NO.		LOCATION NO.	
ENTERED BY	R. CARTER							
CHECKED BY	A. DANNEMILLER							
PROJ. ENGR.	C. ANDERSON							
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY				

COLLEEN ANDERSON — STATE OF WASHINGTON — 20177 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

JULIE HELLMAN — STATE OF WASHINGTON — 41819 — REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

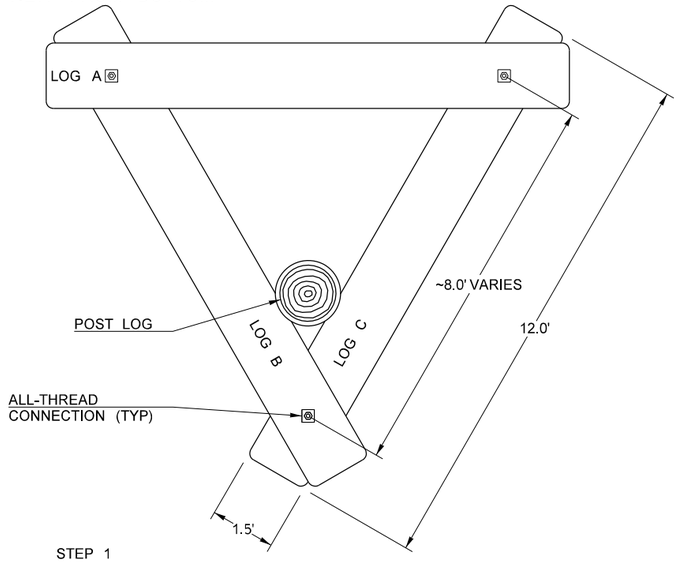
LARGE WOODY MATERIAL DETAILS

Plot 2

PLAN REF NO
CD1

SHEET 10 OF 17 SHEETS

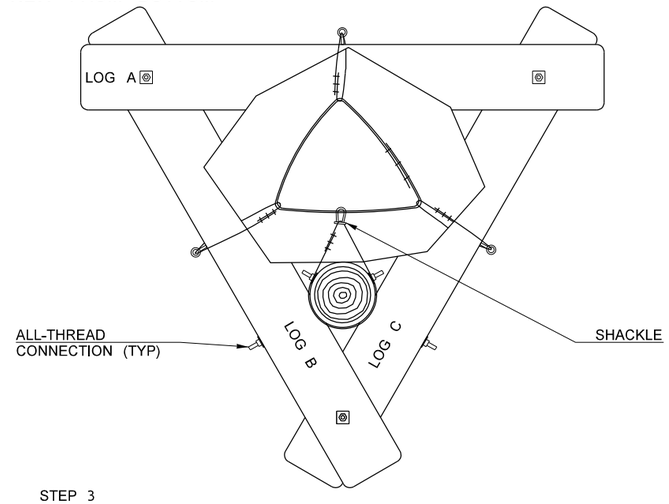
VIEW FROM BOTTOM



STEP 1

1. BUILD BASE TRIANGLE WITH LOGS A, B, & C OVERLAID AS SHOWN.
2. LOCATE POST LOG IN CORNER OF LOGS A, B & C SO THAT HALF THE POST LOG IS BELOW THE BASE TRIANGLE.
3. ADJUST LOGS SO THAT BOULDER WILL NOT PASS THROUGH THE OPENING
4. DRILL AND BOLT LOGS A, B & C TOGETHER WITH ALL-THREAD, NUTS, AND WASHERS

VIEW FROM BOTTOM

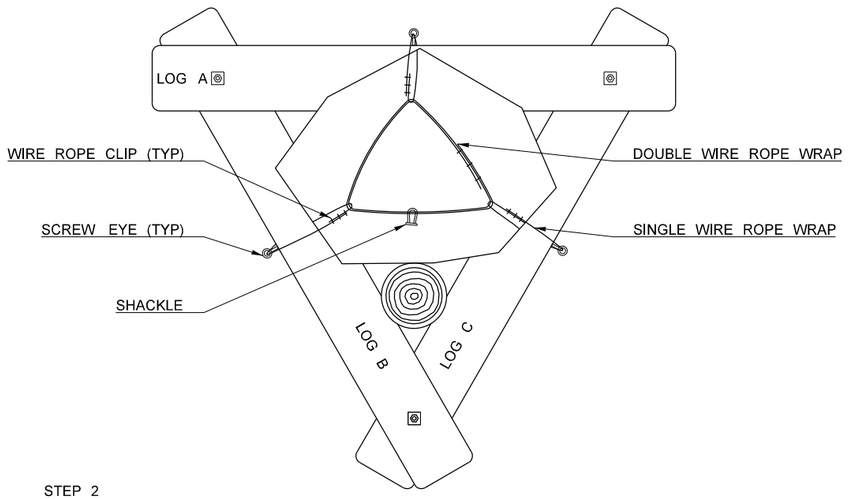


STEP 3

1. ENSURE POST LOG IS IN CONTACT WITH BOULDER.
2. DRILL AND BOLT LOG B AND LOG C TO POST LOG WITH ALL-THREAD, NUTS, AND WASHERS.
3. WRAP WIRE ROPE LOOP AROUND POST LOG AND THROUGH SHACKLE AND SECURE LOOP WHILE UNDER MECHANICAL TENSION WITH 3 WIRE ROPE CLIPS.

LOG JACK ASSEMBLY DETAILS

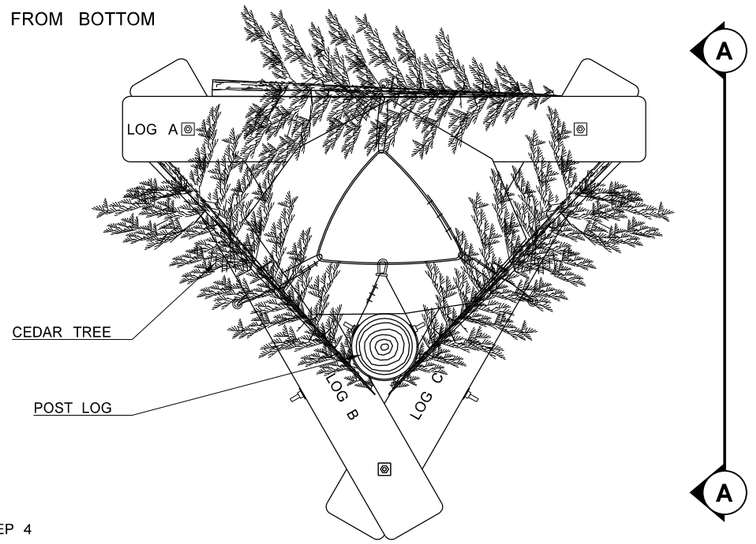
VIEW FROM BOTTOM



STEP 2

1. PLACE BOULDER ON LOG BASE TRIANGLE. ORIENT SO IT RESTS SECURELY ON ALL THREE LOGS AND AGAINSIT THE POST LOG AND WILL NOT PASS THROUGH TRIANGULAR OPENING.
2. THREAD SCREW EYES INTO LOGS A, B AND C SUCH THAT THE DISTANCE FROM THE EYE TO THE TOP OF THE BOULDER IS MINIMIZED. THE SCREW EYE SHALL BE HORIZONTAL.
3. PLACE A DOUBLE-WRAP WIRE ROPE RING APPROXIMATELY 1/2 THE BOULDER DIAMETER OVER THE TOP CENTER OF THE BOULDER. THREAD A SHACKLE THROUGH BOTH WRAPS FACING THE POST LOG. SECURE WIRE ROPE LOOSELY WITH 3 WIRE ROPE CLIPS.
4. WRAP A WIRE ROPE LOOP AROUND EACH LOG, THROUGH EACH SCREW EYE, AND THROUGH THE WIRE ROPE LOOP. SECURE EACH LOOP WITH 3 WIRE ROPE CLIPS. MECHANICALLY TENSION THE DOUBLE-WRAP WIRE ROPE RING TO SECURE THE BOULDER TO THE LOG BASE, AND THEN SECURE THE 3 WIRE ROPE CLIPS WHILE UNDER TENSION.
5. CINCH THE BOULDER SNUG AGAINST THE BASE TRIANGLE AND POST LOG SUCH THAT THERE IS NO PLAY.

VIEW FROM BOTTOM

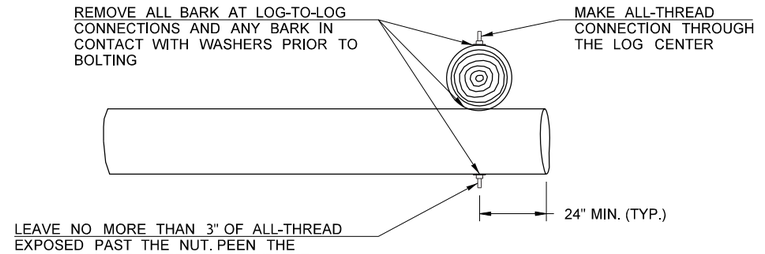


STEP 4

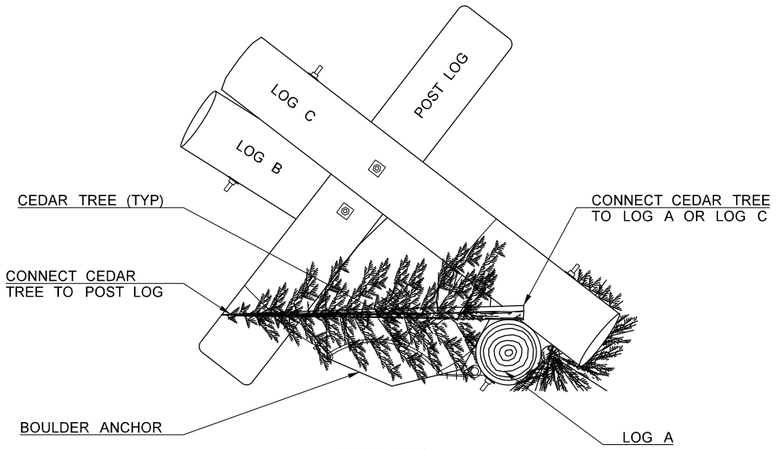
1. ATTACH ONE CEDAR TREE SPANNING THE LOG A/LOG B CONNECTION POINT TO THE LOG A/LOG C CONNECTION POINT.
2. ATTACH ONE CEDAR TREE SPANNING THE LOG A/LOG B CONNECTION POINT TO THE BOULDER SIDE OF THE POST LOG WITH THE CEDAR TREE'S BASE FACING LOG A.
3. ATTACH ONE CEDAR TREE SPANNING THE LOG A /LOG C CONNECTION POINT TO THE BOULDER SIDE OF THE POST LOG WITH THE CEDAR TREE'S BASE FACING LOG A.

NOTES:

1. LOCATIONS AND ORIENTATION OF LWM STRUCTURES AS SHOWN ON THIS SHEET ARE APPROXIMATE AND WILL BE STAKED BY THE ENGINEER.
2. SEE SHEET CR1 FOR LWM PLAN.
3. ALL WIRE ROPE SHALL BE NON-OILED AND NON-GALVANIZED.
4. ALL WIRE ROPE ENDS MUST BE NO LONGER THAN 12" AND TERMINATE WITH A MECHANICALLY CRIMPED SLEEVE OR OTHER APPROVED METHOD.
5. LOGS AND BOULDERS ARE NOT SYMMETRICAL AND HAVE NATURALLY OCCURING VARIATIONS THAT NECESSITATE CUSTOM FITTING. THE CONTRACTOR SHALL MODIFY THE LOG-TO-LOG AND LOG-TO-BOULDER CONNECTIONS SO THAT THE COMPLETED JACK IS A TIGHT AND COMPACT UNIT. THERE SHOULD BE NO PLAY IN THE LOG-TO-LOG CONNECTIONS. THE BOULDER SHOULD BE SECURELY CONTAINED WITHIN AND IN CONTACT WITH ALL 4 LOGS.
6. REMOVE ALL BARK AT LOG-TO-LOG CONNECTIONS AND ANY BARK IN CONTACT WITH WASHERS AND WIRE ROPE PRIOR TO BOLTING AND TENSIONING RESPECTIVELY.
7. ALL LOG-TO-LOG ALL-THREAD CONNECTIONS MUST BE MADE THROUGH THE CENTER OF THE LOG WITH A MINIMUM OF 24" BETWEEN THE ALL-THREAD AND THE LOG END.
8. DOUBLE WIRE ROPE WRAPS SHOULD BE MECHANICALLY TENSIONED TO ~1/4 OF THE WIRE ROPE WORKING LOAD.
9. CONNECT CEDAR TREES TO LOGS AT BOTH ENDS OF TREE USING MANILA ROPE AND A DIAGONAL LASHING WITHOUT FRAPS.
10. SEE SPECIAL PROVISION WOODY MATERIAL FOR ADDITIONAL INFORMATION.



LOG TO LOG CONNECTION DETAIL



A SECTION

NOT TO SCALE

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_CR.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:09:20 AM				10	WASH	
DATE	1/22/2024				JOB NUMBER		
PLOTTED BY	carterra				23A016		
DESIGNED BY	R. CARTER				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. CARTER						
CHECKED BY	A. DANNEMILLER						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

QUILLEN ANDERSON — STATE OF WASHINGTON — 20127 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 — DATE — P.E. STAMP BOX

JULIE HELLMAN — STATE OF WASHINGTON — 41819 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 — DATE — P.E. STAMP BOX

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

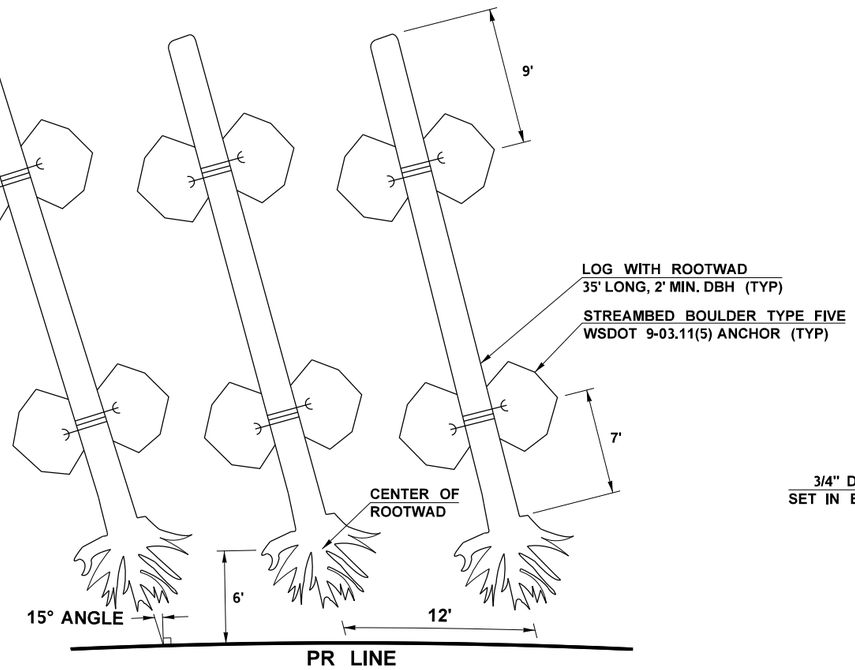
LARGE WOODY MATERIAL DETAILS

PLAN REF NO
CD2

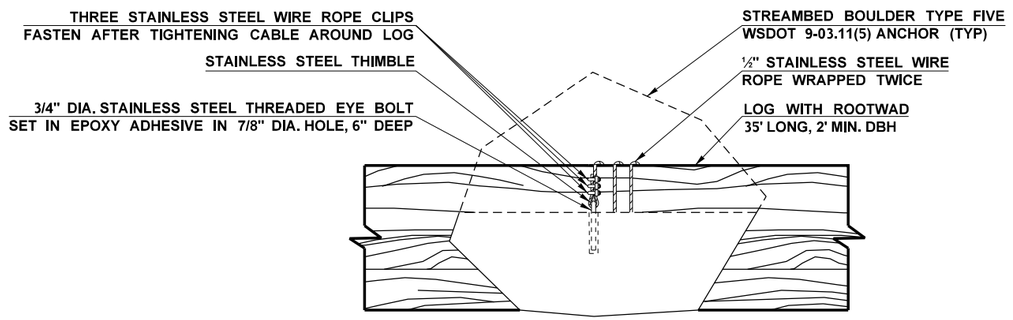
SHEET 11 OF 17 SHEETS

NOTES:

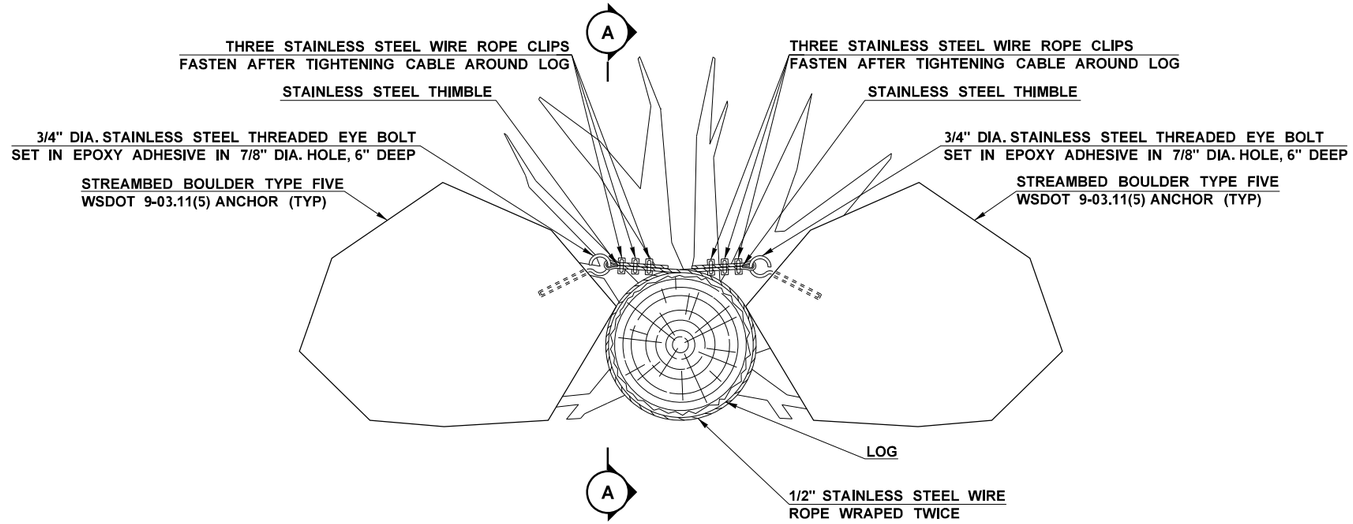
1. LOCATIONS AND ORIENTATION OF LWM STRUCTURES AS SHOWN ON THIS SHEET ARE APPROXIMATE AND WILL BE STAKED BY THE ENGINEER.
2. SEE SHEET CR1 FOR LWM PLAN.
3. ALL WIRE ROPE SHALL BE NON-OILED AND NON-GALVANIZED.
4. ALL WIRE ROPE ENDS MUST BE NO LONGER THAN 12" AND TERMINATE WITH A MECHANICALLY CRIMPED SLEEVE OR OTHER APPROVED METHOD.
10. SEE SPECIAL PROVISION WOODY MATERIAL FOR ADDITIONAL INFORMATION.
11. ROCK SHALL BE SUFFICIENTLY HARD TO NOT BREAK WHEN UNLOADED FROM THE HAUL VEHICLE AND/OR DROPPED FROM UP TO 8 FT AT THE STAGING AREA. ROCK BROKEN DURING TESTING SHALL BE REJECTED.



LWM TYPE A TYPICAL LAYOUT



A-A SECTION VIEW



BOULDER ANCHOR ASSEMBLY

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_CR.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	8:09:21 AM				10	WASH	
DATE	1/22/2024				JOB NUMBER		
PLOTTED BY	carterra				23A016		
DESIGNED BY	R. CARTER				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. CARTER						
CHECKED BY	A. DANNEMILLER						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

KELLEN ANDERSON — STATE OF WASHINGTON — 20177 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

JULIE HELLMAN — STATE OF WASHINGTON — 41819 — REGISTERED PROFESSIONAL ENGINEER
SEE SHEET CT1 DATE
P.E. STAMP BOX

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

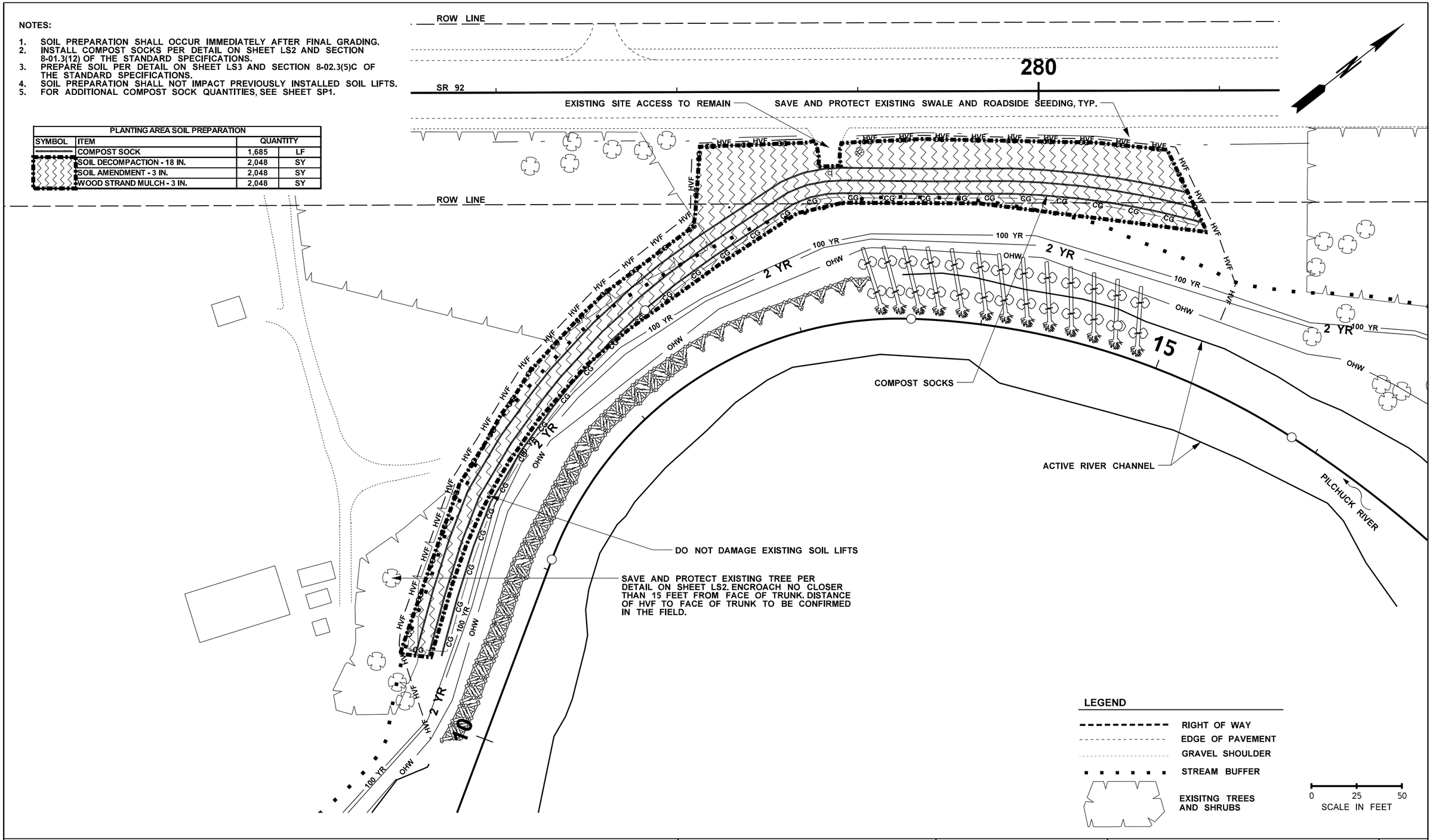
LARGE WOODY MATERIAL DETAILS

Plot 4
PLAN REF NO CD3
SHEET 12 OF 17 SHEETS

NOTES:

1. SOIL PREPARATION SHALL OCCUR IMMEDIATELY AFTER FINAL GRADING.
2. INSTALL COMPOST SOCKS PER DETAIL ON SHEET LS2 AND SECTION 8-01.3(12) OF THE STANDARD SPECIFICATIONS.
3. PREPARE SOIL PER DETAIL ON SHEET LS3 AND SECTION 8-02.3(5)C OF THE STANDARD SPECIFICATIONS.
4. SOIL PREPARATION SHALL NOT IMPACT PREVIOUSLY INSTALLED SOIL LIFTS.
5. FOR ADDITIONAL COMPOST SOCK QUANTITIES, SEE SHEET SP1.

PLANTING AREA SOIL PREPARATION			
SYMBOL	ITEM	QUANTITY	
	COMPOST SOCK	1,685	LF
	SOIL DECOMPACTION - 18 IN.	2,048	SY
	SOIL AMENDMENT - 3 IN.	2,048	SY
	WOOD STRAND MULCH - 3 IN.	2,048	SY



LEGEND

- RIGHT OF WAY
- EDGE OF PAVEMENT
- GRAVEL SHOULDER
- STREAM BUFFER
- EXISITNG TREES AND SHRUBS

0 25 50
SCALE IN FEET

FILE NAME	T:\412006\XL6143_SR_92_Pilchuck_River_CED_Woody_Material_Repair\CAD\ContractPlans\XL6143_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	3:43:20 PM				10	WASH	
DATE	1/9/2024				JOB NUMBER		
PLOTTED BY	JamesMe				23A016		
DESIGNED BY	M. JAMES				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. JAMES						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON · LINDSEY A. JUNGBLUTH · NO 1483 · EXP 11/05/2025 · LICENSED LANDSCAPE ARCHITECT

SEE SHEET CT1
DATE

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY MATERIAL REPAIR

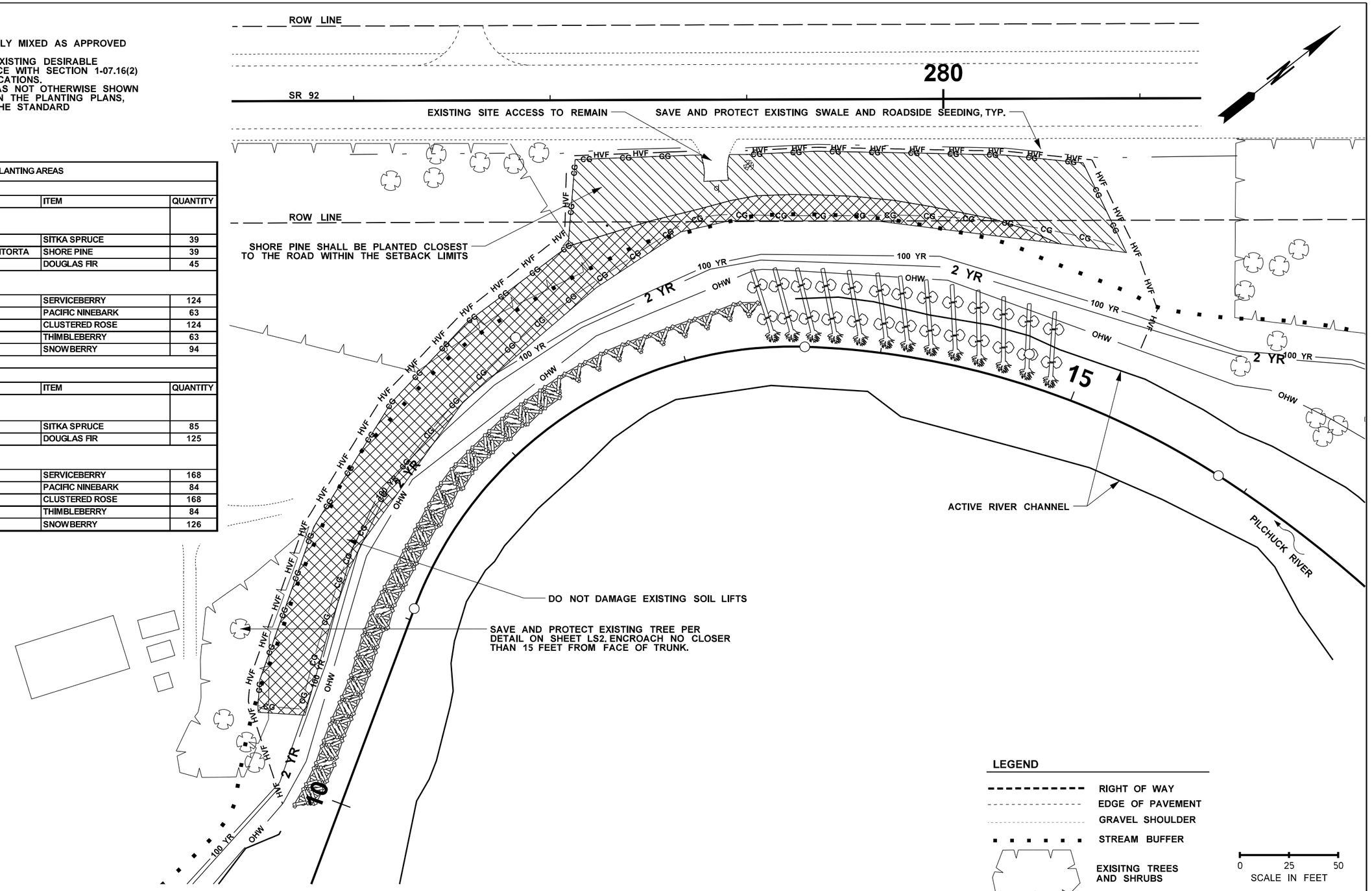
SOIL PREPARATION PLAN

Plot 1
SPP1
SHEET 13 OF 17 SHEETS

NOTES

1. PLANTS SHALL BE RANDOMLY MIXED AS APPROVED BY THE ENGINEER.
2. PRESERVE AND PROTECT EXISTING DESIRABLE VEGETATION IN ACCORDANCE WITH SECTION 1-07.16(2) OF THE STANDARD SPECIFICATIONS.
3. SEED ALL DISTURBED AREAS NOT OTHERWISE SHOWN AS PLANTED OR SEEDED IN THE PLANTING PLANS, PER SECTION 8-01.3(2) OF THE STANDARD SPECIFICATIONS.

PLANTING AREAS			
MIX U (UPLAND)			
SYMBOL		ITEM	QUANTITY
	TREES - 8' O.C.		
	PICEA SITCHENSIS	SITKA SPRUCE	39
	PINUS CONTORTA VAR. CONTORTA	SHORE PINE	39
	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	45
	SHRUBS - 4' O.C.		
	AMELANCHIER ALNIFOLIA	SERVICEBERRY	124
	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	63
	ROSA PISOCARPA	CLUSTERED ROSE	124
	RUBUS PARVIFLORUS	THIMBLEBERRY	63
	SYMPHORICARPOS ALBUS	SNOWBERRY	94
MIX R (RIPARIAN)			
SYMBOL		ITEM	QUANTITY
	TREES - 8' O.C.		
	PICEA SITCHENSIS	SITKA SPRUCE	85
	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	125
	SHRUBS - 4' O.C.		
	AMELANCHIER ALNIFOLIA	SERVICEBERRY	168
	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	84
	ROSA PISOCARPA	CLUSTERED ROSE	168
	RUBUS PARVIFLORUS	THIMBLEBERRY	84
	SYMPHORICARPOS ALBUS	SNOWBERRY	126



LEGEND

- RIGHT OF WAY
- EDGE OF PAVEMENT
- GRAVEL SHOULDER
- STREAM BUFFER
- EXISITNG TREES AND SHRUBS

0 25 50
SCALE IN FEET

FILE NAME	T:\412006\XL6143 SR 92 Pilchuck River CED Woody Material Repair\CAD\ContractPlans\XL6143_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:15:43 AM				10	WASH	
DATE	1/10/2024				JOB NUMBER		
PLOTTED BY	JamesMe				23A016		
DESIGNED BY	M. JAMES				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. JAMES						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON · LINDSEY A. JUNGBLUTH · NO. 1483 · EXP. 11/05/2025 · LICENSED LANDSCAPE ARCHITECT

SEE SHEET CT1
DATE

Washington State Department of Transportation

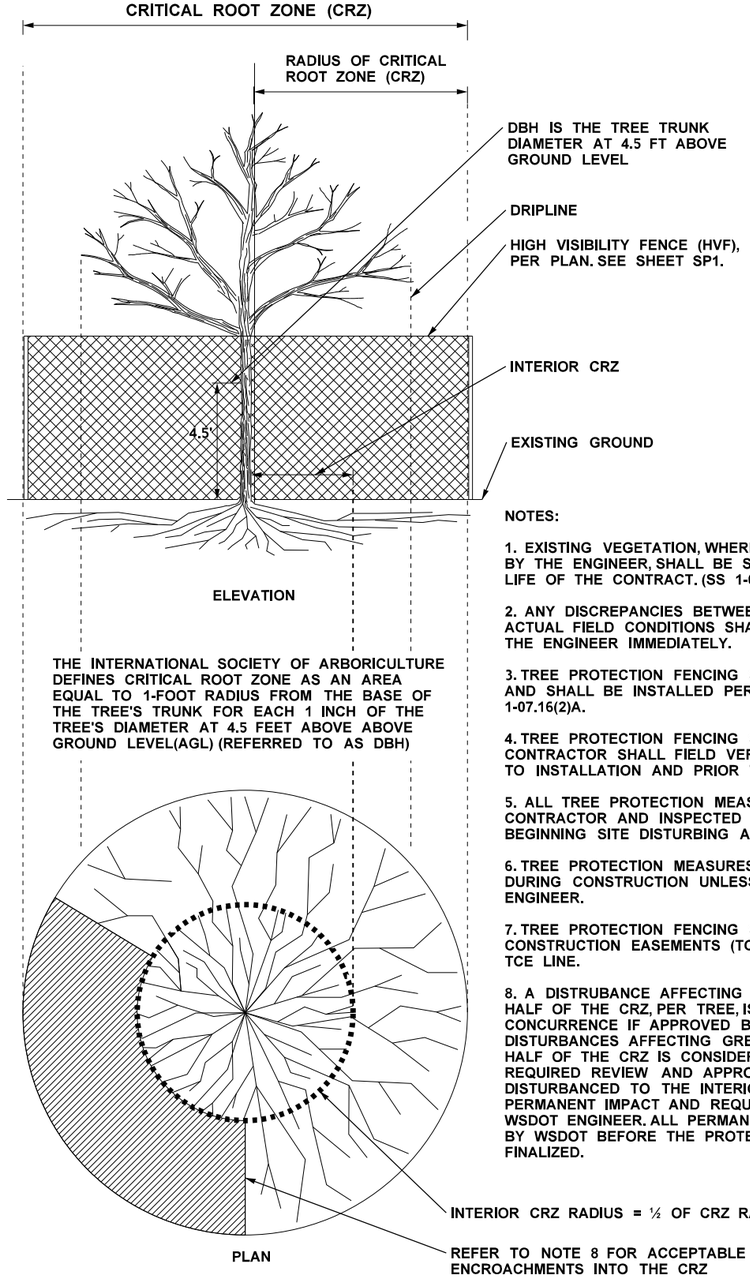
SR 92
PILCHUCK RIVER CED
WOODY MATERIAL REPAIR

RESTORATION PLAN

Plot 2

LS1

SHEET 14 OF 17 SHEETS



NOTES:

1. EXISTING VEGETATION, WHERE SHOWN IN THE PLANS OR DESIGNATED BY THE ENGINEER, SHALL BE SAVED AND PROTECTED THROUGH THE LIFE OF THE CONTRACT. (SS 1-07.16(2)) & (RPM 2.2.1)

2. ANY DISCREPANCIES BETWEEN INFORMATION IN THE PS&E AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

3. TREE PROTECTION FENCING SHALL BE A HIGH VISIBILITY FENCE (HVF) AND SHALL BE INSTALLED PER STANDARD SPECIFICATION 8-01.3(1) AND 1-07.16(2)A.

4. TREE PROTECTION FENCING SHOWN ON PLANS IS DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION AND PRIOR TO INITIATING CONSTRUCTION.

5. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY WSDOT ENGINEER PRIOR TO BEGINNING SITE DISTURBING ACTIVITIES.

6. TREE PROTECTION MEASURES SHALL REMAIN INTACT AT ALL TIMES DURING CONSTRUCTION UNLESS DIRECTED OTHERWISE BY WSDOT ENGINEER.

7. TREE PROTECTION FENCING SHALL REMAIN WITHIN ALL TEMPORARY CONSTRUCTION EASEMENTS (TCE) AND SHALL NOT EXTEND PAST THE TCE LINE.

8. A DISTRUBANCE AFFECTING 30 PERCENT OR LESS OF THE OUTER HALF OF THE CRZ, PER TREE, IS ALLOWED WITHOUT WSDOT CONCURRENCE IF APPROVED BY THE PROJECT AROBIRIST. ANY DISTURBANCES AFFECTING GREATER THAN 30 PERCENT TO THE OUTER HALF OF THE CRZ IS CONSIDERED A PERMANENT IMPACT AND REQUIRED REVIEW AND APPROVAL BY A WSDOT ENGINEER. ANY DISTURBANCED TO THE INTERIOR HALF OF THE CRZ IS CONSIDERED A PERMANENT IMPACT AND REQUIRES REVIEW AND APPROVAL BY A WSDOT ENGINEER. ALL PERMANENT TREE IMPACTS SHALL BE REVIEWED BY WSDOT BEFORE THE PROTECTION OR REMOVAL STATUS CAN BE FINALIZED.

TREE PROTECTION

ELEVATION VIEW & PLAN VIEW

NOT TO SCALE

PLANT MATERIAL LIST

COMMON NAME	BOTANICAL NAME	QUANTITY	ROOT CONDITION	REMARKS
EVERGREEN TREES				
SITKA SPRUCE	PICEA SITCHENSIS	124	NO. 2 CONT.	SECTION 9-14.7, SINGLE LEADER
SHORE PINE	PINUS CONTORTA VAR. CONTORTA	39	NO. 2 CONT.	SECTION 9-14.7, SINGLE LEADER
DOUGLAS FIR	PSEUDOTSUGA MENZIESII	170	NO. 2 CONT.	SECTION 9-14.7, SINGLE LEADER
DECIDUOUS SHRUBS				
SERVICEBERRY***	AMELANCHIER ALNIFOLIA	292	NO. 1 CONT.	SECTION 9-14.7, THREE STEM MIN.
PACIFIC NINEBARK***	PHYSOCARPUS CAPITATUS	147	NO. 1 CONT.	SECTION 9-14.7, THREE STEM MIN.
CLUSTERED ROSE**	ROSA PISOCARPA	292	NO. 1 CONT.	SECTION 9-14.7, THREE STEM MIN.
THIMBLEBERRY***	RUBUS PARVIFLORUS	147	NO. 1 CONT.	SECTION 9-14.7, THREE STEM MIN.
SNOWBERRY**	SYMPHORICARPOS ALBUS	220	NO. 1 CONT.	SECTION 9-14.7, THREE STEM MIN.

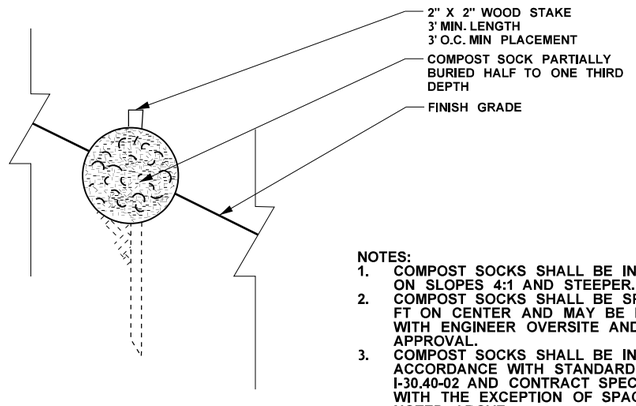
GENERAL PLANT MATERIAL NOTES:

1. ALL PLANT MATERIAL SHALL BE NURSERY GROWN STOCK.
2. IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY.
3. SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.

PLANT MATERIAL SETBACK

THIS CHART SUPPLEMENTS SECTION 8-02.3(7) OF THE STANDARD SPECIFICATIONS. SETBACKS APPLY UNLESS OTHERWISE ADJUSTED BY ENGINEER DURING PLANT STAKING OR LAYOUT. DISTANCES BELOW ARE TO THE STEM OR TRUNK OF THE PLANT BEING INSTALLED.

	GUARDRAIL BARRIER	EDGE OF ROADWAY	WALL	FENCE	SIGNS	EXISTING TREE TRUNK	EXISTING VEGETATION MASS	OVERHEAD POWER	DRAINAGE STRUCTURE	DRAINAGE ACCESS ROAD	SIDEWALK	SIGNING AND LIGHTING
GROUNDCOVER *	5`	5`	3`	1.5'	1.5'	5'	5'	-	5'	5'	2`	2`
SMALL SHRUB **	5`	10`	5`	3'	6'	5`	5`	-	5`	5`	2`	5`
TALL SHRUB ***	10`	15`	10	3'	6'	10'	10'	10'	10`	10`	5`	10`
DECIDUOUS TREE	15`	20`	15`	10`	15'	15`	10'	20'	10`	15'	10`	15`
EVERGREEN TREE	15`	20`	15`	10`	15'	15`	10'	30'	10`	15'	10`	15`



NOTES:
1. COMPOST SOCKS SHALL BE INSTALLED ON SLOPES 4:1 AND STEEPER.
2. COMPOST SOCKS SHALL BE SPACED 6-8 FT ON CENTER AND MAY BE FIELD FIT WITH ENGINEER OVERSITE AND APPROVAL.
3. COMPOST SOCKS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD PLAN I-30.40-02 AND CONTRACT SPECIFICATIONS, WITH THE EXCEPTION OF SPACING AS NOTED ABOVE.

COMPOST SOCK

SECTION VIEW

NTS

FILE NAME	T:\412006\XL6143 SR 92 Pilchuck River CED Woody Material Repair\CAD\ContractPlans\XL6143_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	3:32:03 PM				10	WASH	
DATE	1/9/2024				JOB NUMBER		
PLOTTED BY	JamesMe				23A016		
DESIGNED BY	M. JAMES				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. JAMES						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON · LINDSEY A. JUNGBLUTH · NO. 1483 · EXP. 11/05/2025 · LICENSED LANDSCAPE ARCHITECT

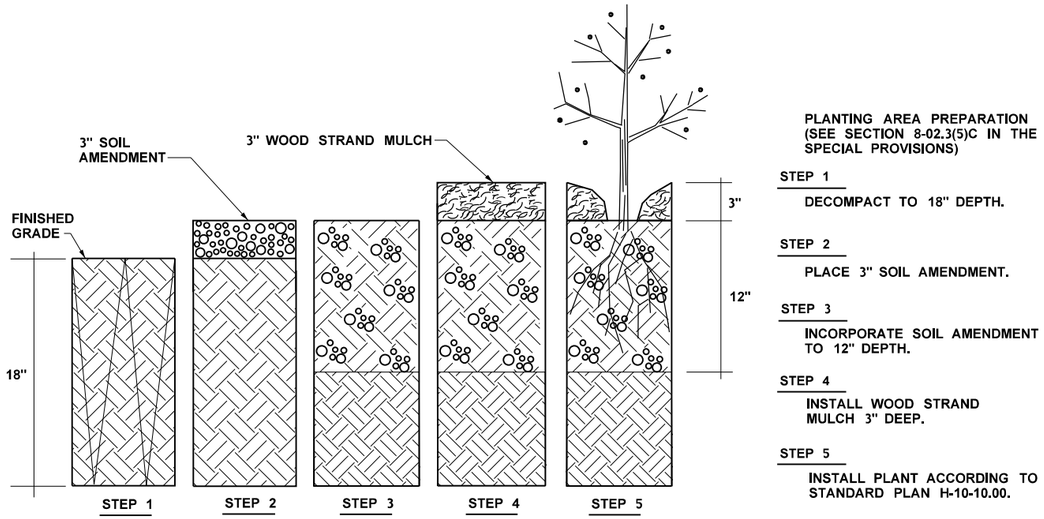
SEE SHEET CT1
DATE

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY MATERIAL REPAIR

RESTORATION DETAILS

Plot 3
LS2
SHEET 15 OF 17 SHEETS



PLANTING AREA PREPARATION (SEE SECTION 8-02.3(5)C IN THE SPECIAL PROVISIONS)

STEP 1
DECOMPACT TO 18" DEPTH.

STEP 2
PLACE 3" SOIL AMENDMENT.

STEP 3
INCORPORATE SOIL AMENDMENT TO 12" DEPTH.

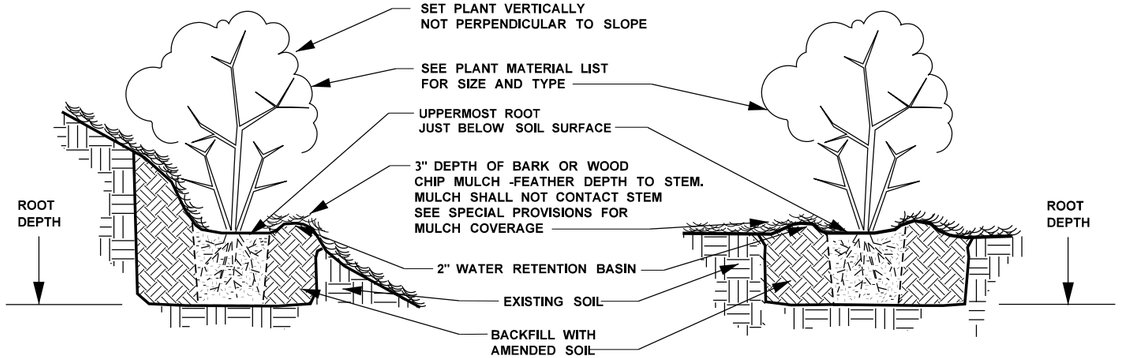
STEP 4
INSTALL WOOD STRAND MULCH 3" DEEP.

STEP 5
INSTALL PLANT ACCORDING TO STANDARD PLAN H-10-10.00.

PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



TREE & SHRUB PLANTING ON SLOPE

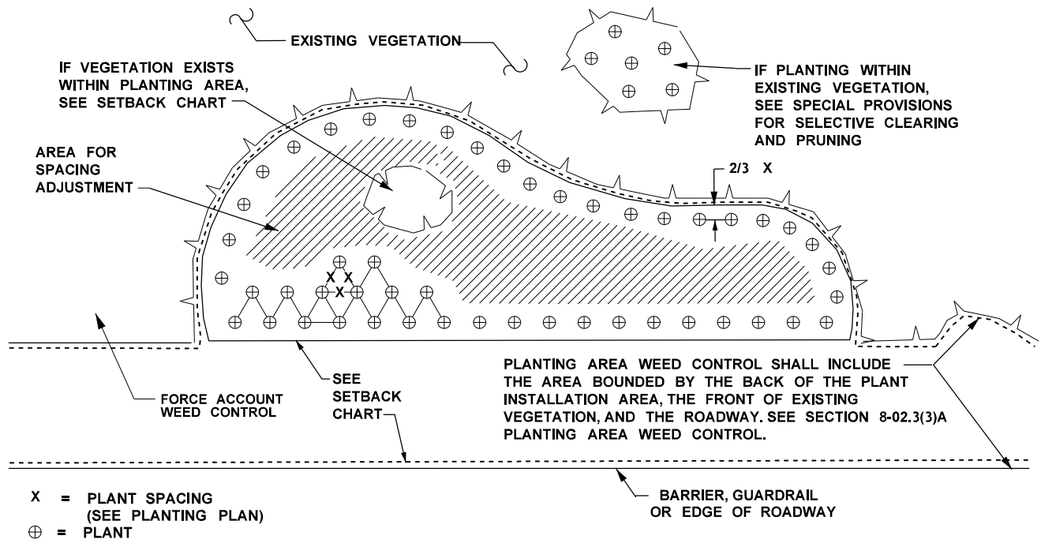
BARE ROOT AND CONTAINER

NOT TO SCALE

TREE & SHRUB PLANTING

BARE ROOT AND CONTAINER

NOT TO SCALE



X = PLANT SPACING (SEE PLANTING PLAN)

⊕ = PLANT

PLANTING AREA LAYOUT, SETBACK, AND WEED CONTROL

NOT TO SCALE

FILE NAME	T:\412006\XL6143 SR 92 Pilchuck River CED Woody Material Repair\CAD\ContractPlans\XL6143_PS_LS.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	3:32:08 PM				10	WASH	
DATE	1/9/2024				JOB NUMBER		
PLOTTED BY	JamesMe				23A016		
DESIGNED BY	M. JAMES				CONTRACT NO.		LOCATION NO.
ENTERED BY	M. JAMES						
CHECKED BY	L. JUNGBLUTH						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

STATE OF WASHINGTON LINDSEY A. JUNGBLUTH No. 14183 EXP. 11/05/2025 LICENSED LANDSCAPE ARCHITECT

SEE SHEET CT1
DATE

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY MATERIAL REPAIR

RESTORATION DETAILS

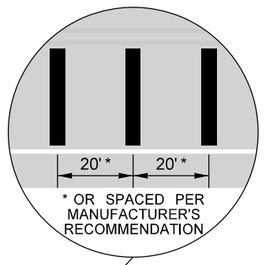
Plot 4

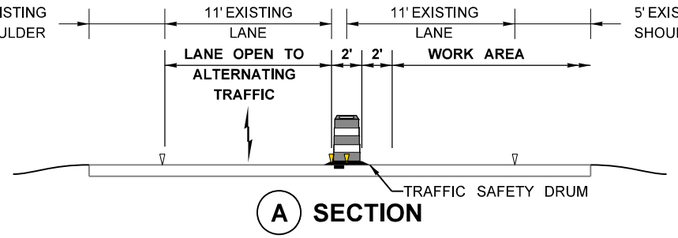
LS3

SHEET 16 OF 17 SHEETS

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60-65 MPH	800' +/-
RURAL ROADS	45-55 MPH	500' +/-
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.		

MAXIMUM CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50-65	10 to 20	80
45	10 to 20	60





A SECTION

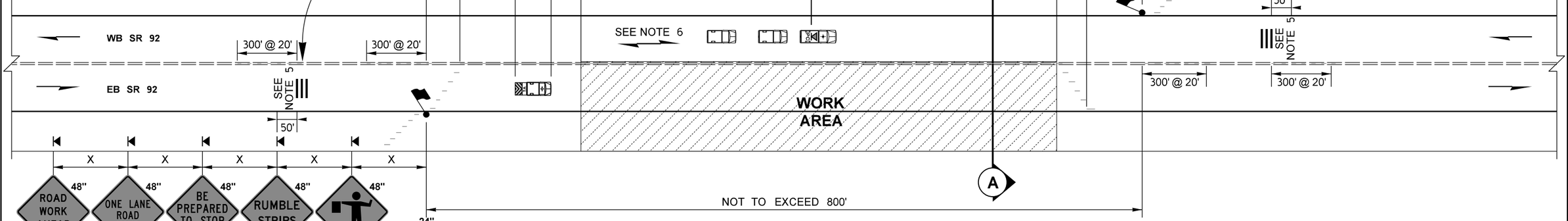
TRUCK-MOUNTED PCMS	
1	2
PILOT CAR	FOLLOW ME
2.0 SEC	2.0 SEC
10+ INCH CHARACTERS	

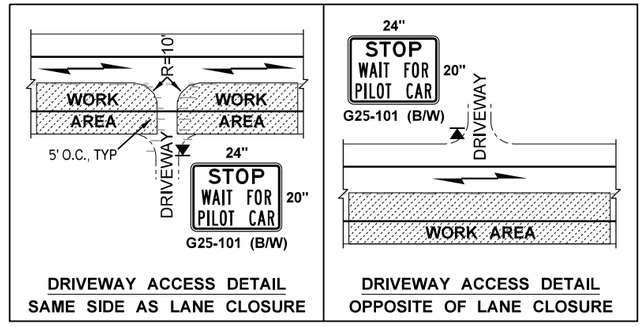
OR

G20-4

PROTECTIVE VEHICLE ROLL AHEAD DISTANCE = R
NO SPECIFIED DISTANCE REQUIRED. STRATEGICALLY POSITION WORK VEHICLE TO PROTECT WORK CREW.

STATIONARY TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R			
HOST VEHICLE WEIGHT LESS THAN 22,000 lbs.		HOST VEHICLE WEIGHT 22,000+ lbs.	
45-55 MPH	60+ MPH	45-55 MPH	60+ MPH
123'	172'	100'	150'





LEGEND:

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM - SEE SPECIAL PROVISION
- PCS PILOT CAR
- MOTORIST VEHICLE
- TRANSPORTABLE ATTENUATOR
- FLAGGER
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY RUMBLE STRIP

NOTES:

1. SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE INDICATED.
2. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
3. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   -1-07.8(1) HIGH-VISIBILITY APPAREL
   -1-10.3(1) FLAGGERS AND NIGHTTIME ILLUMINATION
   -1-10.3(2) TRAFFIC CONTROL PROCEDURES
   -9-35.1 24-INCH STOP/SLOW PADDLE SIZE
4. DEVICE SPACING FOR DOWNSTREAM TAPER SHALL BE 20' (FT) O.C.
5. USE ONE OF THE FOLLOWING RUMBLE STRIPS:
   -PSS Roadquake 2 or 2F Temporary Portable Rumble Strip (Black)
   -TrafFIx Alert High Speed Rumble Strip (Black)
6. PILOT CAR OPERATOR TO DRIVE SPEED SUITABLE FOR WORK ZONE CONDITIONS, STOPPING TRAFFIC IF NECESSARY, UP TO A MAXIMUM SPEED OF 35 MPH (25 MPH AT LANE SHIFT, 10 MPH ESCORTING BICYCLES).
7. THIS PLAN IS ONLY APPLICABLE FOR NIGHTTIME HOURS. SEE SPECIAL PROVISIONS.

PILOT CAR OPERATION FOR ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED + TEMP. RUMBLE STRIPS

(1 OF 1) NOT TO SCALE

FILE NAME	T:\412348\XL6143-SR92-PIlchuckRIverCED\CAD\ContractPlans\XL6143_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:14:33 AM				10	WASH	
DATE	1/11/2024				JOB NUMBER		
PLOTTED BY	DannemA				23A016		
DESIGNED BY	R. CARTER				CONTRACT NO.		LOCATION NO.
ENTERED BY	R. CARTER						
CHECKED BY	A. DANNEMILLER						
PROJ. ENGR.	C. ANDERSON						
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY			

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State Department of Transportation

SR 92
PILCHUCK RIVER CED
WOODY DEBRIS REPAIR

TRAFFIC CONTROL PLAN

Plot 12

PLAN REF NO TC1

SHEET 17 OF 17 SHEETS